AMENDMENTS TO THE CLAIMS

1.   (canceled)

2.   (currently amended) A <u>communications</u> system for transmitting data<u>, the system</u>

comprising:

~~means for encoding a digital signal into a 180-degree phase-shifted encoded~~

~~signal;~~

means for transmitting ~~said encoded~~ <u>a digital</u> signal as a spread spectrum

frequency hopped signal<u>, wherein the spread spectrum frequency hopped signal includes</u>

<u>a header that identifies a frequency channel and a network identification</u>; and

means for receiving said spread spectrum frequency-hopped signal<u>, wherein said</u>

<u>means for receiving includes means for using the network identification to detect</u>

<u>broadcast signals, and wherein said means for receiving further includes means for using</u>

<u>the header to track the hopped signal upon detection of noise.</u>

3.   (new) A method for digital data transmission, the method comprising:

receiving a digital signal that is modulated for radio transmission, wherein the

modulated signal includes a header having a channel identifier;

demodulating the signal, wherein the demodulation comprises:

filtering the signal; and

determining that the signal is data by evaluating its pulse width.

4.   (new) A method as recited in claim 3, wherein the step for demodulating the signal further comprises a step for determining that the signal is data by evaluating its pattern.